IN THE CLAIMS

Please amend claims 1, 39, 45, 55 and 70 and cancel claims 2-38, 40-44, 46-54, and 56-69 as follows:

Claim 1. (Currently Amended): A method for ~~calibrating an apparatus capable of acquiring a sequence of radiographic images and~~ correcting ~~images of~~ an image of an object under observation, comprising:

obtaining a first sequence of images of a calibration device utilizing an apparatus;

determining a first mean gray level in a zone of interest in a first image in the first sequence of images;

determining a second mean gray level in a zone of interest in another image in the first sequence of images;

determining a variation value corresponding to a variation between the first mean gray level and the second mean gray level;

obtaining a second sequence of images of the object utilizing the apparatus;

determining a third mean gray level in a zone of interest in a first image in the second sequence of images; and

correcting another image of the object in the second sequence of images based on the variation value and the third mean gray level

~~for each image of a sequence acquired by the apparatus and for a given frequency of acquisition of the sequence, the apparatus is calibrated by determining the value of the variation of a mean of gray levels in at least one zone of interest of the current image of at least one calibration device, the variation being determined relative to the mean gray level of the first image of the sequence in each zone of interest;~~

~~the determination of the variation is reiterated for a series of images sequences acquired using calibration devices resulting in first images of mean gray levels different from one sequence to another; and~~

~~each image of an image sequence of the object under observation is corrected, comprising zones of observation having different gray levels by subtracting from the current image the variation of one gray level relative to the first image of the object, the subtraction being a function of the gray level considered from each zone of observation.~~

Claims 2-38 (Cancelled).

Claim 39. (Currently Amended): The method according to claim 1 ~~2~~ wherein the ~~each~~ calibration device is placed in a field of acquisition of the apparatus ~~also comprising the object under observation~~.

Claims 40-44 (Cancelled).

Claim 45. (Currently Amended): The method according to claim 1 wherein the ~~each~~ calibration device comprises at least ~~two~~ first and second zones of interest having ~~a~~ first and second mean gray levels, respectively ~~level different from one zone to another for each image~~.

Claims 46-54 (Cancelled).

Claim 55. (Currently Amended): The method according to claim 1 wherein correcting another image of the object in the second sequence of images comprises correcting another image of the object based on the variation value and third mean gray level and a ~~39 wherein the value subtracted from each image of the image sequence of the object is a function on the one hand of the observation zone and on the other hand a function of the~~ spatial gain of the apparatus.

Claims 56-69 (Cancelled).

Claim 70. (Currently Amended): A method of operating a means for data processing comprising:

for each image of a sequence acquired by an apparatus and for a given frequency of acquisition of the sequence, the apparatus is calibrated by determining ~~the~~ a value of ~~the~~ a variation of a mean of gray levels in at least one zone of interest of a ~~the~~ current image of at least one calibration device, the variation being determined relative to ~~the~~ a mean gray level of ~~the~~ a first image of the sequence in each zone of interest;

the determination of the variation is reiterated for a series of images sequences acquired using calibration devices resulting in first images of mean gray levels different from one sequence to another; and

each image of an image sequence of ~~the~~ an object under observation is corrected, a current image of the object comprising zones of observation having different gray levels and being corrected by subtracting from the current image of the object the variation of one gray level relative to ~~the~~ a first image of the object, the subtraction being a function of the gray level considered from each zone of observation;

wherein each calibration device is placed in a field of acquisition of the apparatus also comprising the object under observation;

wherein the value subtracted from each image of the image sequence of the object is a function of an observation zone and of a spatial gain of the apparatus.